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## In the Claims:

- 1. (Currently Amended) A non-volatile memory device comprising:
- a substrate;
- a plurality of isolation layers on the substrate that define a plurality of active regions therebetween;
- a charge storage insulator on the plurality of active regions and the plurality of isolation layers; and
- a plurality of gate word lines on the charge storage insulator and crossing over the plurality of active regions; and
- a plurality of conductive patterns disposed between at least some of the word lines that penetrate the charge storage insulator to electrically connect with at least some of the plurality of active regions.
- 2. (Currently Amended) The non-volatile memory device of Claim 40 1, wherein a top surface of each of the plurality of isolation layers is disposed farther above the substrate than a top surface of each of the plurality of active regions.
- 3. (Currently Amended) The non-volatile memory device of Claim 40 1, wherein the charge storage insulator comprises a multi-layer structure having at least one oxide layer.
- 4. (Original) The non-volatile memory device of Claim 3, wherein at least one of the at least one oxide layers comprises an insulating metal oxide layer.
- 5. (Currently Amended) The non-volatile memory device of Claim 40 +, wherein the charge storage insulator comprises a lower oxide layer, a charge trapping layer disposed on the lower oxide layer and an insulating metal oxide layer disposed on the charge trapping layer.
- 6. (Currently Amended) The non-volatile memory device of Claim 40 1, wherein the plurality of isolation layers and the plurality of active regions are located in a cell region of

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the device and wherein the charge storage insulator is on substantially the entire surface of the cell region.

7. (Original) A non-volatile memory device comprising:

a substrate having a cell region, a high voltage region and a low voltage region;

a plurality of trench isolation layers on the substrate that define a plurality of first active regions in the cell region, a plurality of second active regions in the high voltage region and a plurality of third active regions in the low voltage region;

a charge storage insulator on the plurality of first active regions and the plurality of trench isolation layers in the cell region of the device;

a plurality of gate lines on the charge storage insulator and crossing over the plurality of trench isolation layers in the cell region of the device.

8. (Original) The non-volatile memory device of Claim 7, the device further comprising:

a high voltage gate electrode crossing over each of the plurality of second active regions and a first insulation layer interposed between the high voltage gate electrode and each of the plurality of second active regions.

a low voltage gate electrode crossing over each of the plurality of third active regions and a second insulation layer interposed between the low voltage gate electrode and each of the plurality of third active regions.

- 9. (Original) The non-volatile memory device of Claim 7, wherein a top surface of each of the plurality of trench isolation layers is disposed farther above the substrate than a top surface of each of the plurality of first, second and third active regions.
- 10. (Original) The non-volatile memory device of Claim 7, wherein the charge storage insulator is a multi-layer structure that includes an insulating metal oxide layer.
- 11. (Original) The non-volatile memory device of Claim 8, wherein the first insulation layer is thicker than the second insulation layer.

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- 12. (Original) The non-volatile memory device of Claim 11, wherein the first insulation layer comprises a first oxide layer and a lower oxide layer and wherein the second insulation layer comprises a second oxide layer and a lower oxide layer.
- 13. (Original) The non-volatile memory device of Claim 12, wherein the plurality of gate lines include a plurality of word lines, a ground selection gate line and a string selection gate line and wherein the second oxide layer is further interposed between the charge storage insulator and the first active region at the regions of the charge storage insulator that are under the ground and string selection gate lines.
- 14. (Original) The non-volatile memory device of Claim 8, wherein the first insulation layer comprises a first oxide layer, a lower oxide layer and a second oxide layer and wherein the second insulation layer comprises the lower oxide layer and the second oxide layer.
- 15. (Original) The non-volatile memory device of Claim 14, wherein the first insulation layer and the second insulation layer each further comprise an upper oxide layer on the second oxide layer.
- 16. (Original) The non-volatile memory device of Claim 13, wherein a lower oxide layer is further interposed between the string selection gate line and the plurality of first active regions, and between the ground selection gate line and the plurality of first active regions.
- 17. (Original) The non-volatile memory device of Claim 8, wherein the first insulation layer comprises a first oxide layer and a second oxide layer and wherein the second insulation layer comprises the second oxide layer.
- 18. (Original) The non-volatile memory device of Claim 17, wherein each of the plurality of gate lines comprises a second conductive layer and a third conductive layer and wherein the high and low voltage gate electrodes comprise a first conductive layer and a third conductive layer.

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19. (Original) A non-volatile memory device comprising:

a substrate having a cell region, a high voltage region and a low voltage region;

a plurality of device isolation layers on the substrate that define a plurality of first active regions in the cell region, a second active region in the high voltage region and a third active region in the low voltage region;

a charge storage insulator disposed on the first active regions and the plurality of device isolation layers wherein the charge storage insulator comprises a lower oxide layer, a charge trapping layer and an upper oxide layer;

a plurality of gate lines on the charge storage insulator that cross over the plurality of device isolation layers;

- a first gate electrode crossing over the second active region;
- a second gate electrode crossing over the third active region;
- a first insulation layer interposed between the first gate electrode and the second active region; and

a second insulation layer interposed between the second gate electrode and the third active region.

20. (Original) The non-volatile memory device of Claim 19, wherein the plurality of gate lines include a plurality of word lines disposed in a word line portion of the cell region, and a ground selection gate line and a string selection gate line that are disposed in a selection gate portion of the cell region and wherein the lower oxide layer of the charge storage insulator is thinner under the plurality of word lines than the lower oxide layer of the charge storage insulator is under the ground selection gate line and the string selection gate line.

21-39. (Canceled).

40. (New) The non-volatile memory device of Claim 1, further comprising a plurality of conductive patterns disposed between at least some of the gate lines that penetrate the charge storage insulator to electrically connect with at least some of the plurality of active regions.